Docket No.: 055190-0012

1645 AF/TIEW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Customer Number: 20277

Josee HAMEL, et al. : Confirmation Number: 7195

Application No.: 09/471,255 : Group Art Unit: 1645

Filed: December 23, 1999 : Examiner: V. Portner

For: NOVEL STREPTOCOCCUS ANTIGENS

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. It is respectfully requested that the documents be expressly considered during the prosecution of this application, and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.

One of the references cited herein, Sa-Leao et al., was cited by the Examiner in related Application Serial No. 09/884,465 in the March 30, 2004 Office Action, but cannot be located

07/07/2005 SDENBOB1 00000053 500417 09471255

01 FC:1806 180.00 DA

09/471,255

either in the Patent Office records or in our files. Therefore, a copy of this references has not been provided.

In accordance with 37 CFR 1.17(p), please charge the fee of \$180.00 to Deposit Account No. 500417.

Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOJT WILL & EMERY LLP

Judith L. Toffenetti Registration No. 39,048

600 13th Street, N.W. Washington, DC 20005-3096 Phone: 202.756.8000 JLT:apr

Facsimile: 202.756.8087

Date: July 5, 2005

Please recognize our Customer No. 20277 as our correspondence address.

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

ATTY. DOCKET NO. 055190-0012

SERIAL NO. 09/471,255

JUL 0 5 2005

(PTO-1449)

APPLICANT

Josee HAMEL, et al.

FILING DATE

GROUP 1645

December 23, 1999 U.S. PATENT DOCUMENTS

A TO LOCAL PROPERTY.			O	ois. Third booking to			
EXAMINERS INITIALS	CITE NO.	i .	Document Number nber-Kind Code2 (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US	2003/0077293	4/24/2003	Hamel et al.		
	<u> </u>	us	2003/0232976	12/18/2003	Hamel et al.		
	 	110	6 900 744	10/5/2004	Doucotto Stamm et al		

FOREIGN PATENT DOCUMENTS

EXAMINER'S		Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines	Translation		
INITIALS	CITE NO.	Country Codes -Number 4 -Kind Codes (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Figures Appear	Yes	No	
		WO00/39299	07/06/2000	Biochem Pharma Inc.				
		WO01/98334	12/27/2001	Shire Biochem Inc.				_
		WO02/077021	10/03/2002	Chi-ron Spa et al.				
		WO04/092209	10/28/2004	Inter-Cell AG				

		WO00/39299 07	7/06/2000	Biochem Pharma Inc.						
		WO01/98334 12	2/27/2001	Shire Biochem Inc.						
		WO02/077021 10	0/03/2002	Chi-ron Spa et al.						
		WO04/092209 10	0/28/2004	Inter-Cell AG						
		OTHER ART (Inc	cluding Author	r, Title, Date, Pertinent Pages, E	tc.)					
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.								
		Orihuela, et al., 'Organ-Sepcific models Vol. 35, No. 9, 2003, p. 647-652.	s of Streptoco	ccus pneumoniae Disease," Sca	indinavian Journal of Infec	tious Diseases,				
		Whittam, et al., *Inferences from whole Development, Dec. 2002, Vol. 12, No.	6, pgs. 719-2	5.		s and				
	<u> </u>	Sa-Leao, et al., Abstracts of the General	•	<u>-</u>						
		Creighton, Thomas E. in his book, "Proteins: Structures and Molecular Principles," 1984, pages 314- 315.								
		Creighton, Thomas E. in his book "Protein Structure: A Practical Approach," 1989; pages 184-186.								
		Nosoh, et al. in "Protein Stability and Stabilization through Protein Engineering," 1991, pages 197-217.								
		Oli, et al., "Redirecting the Humoral Immune Response against Streptococcus mutans Antigen P1 with Monoclonal Antibodies," Infection and Immunity, December 2004, p. 6951-6960.								
		Swildens, et al., "Intestinal translocation of Streptococcus suis type 2EF* in pigs," Veterinary Microbiology 103, 2004, pgs. 29-33.								
		Bolton, et al., "Use of the surface proteins GapC and Mig of Streptococcus dysgalactiae as potential protective antigens against bovine mastitis," Can J. Microbiol., June 2004, 50(6):423-32 (Abstract only).								
		Okamoto, et al., "Vaccination with formalin-inactivated influenza vaccine protects mice against lethal influenza Streptococcus pyogenes superinfection," Vaccine 22, 2004, pgs 2887-2893.								
		Briles, et al., "Immunization of Humans with Recombinant Pneumococcal Surface Protein A (rPspA) Elicits Antibodies that Passively Protect Mice from Fatal Infection with Streptococcus pneumoniae bearing Heterologous PspA", J. Infectious Disease, 182, December 2000, pgs. 1694-1701.								
		Briles, et al., "Intranasal Immunization of Mice with a Mixture of the Pneumococcal Proteins PsaA and PspA is Highly Protective against Nasopharyngeal Carriage of Streptococcus pneumoniae", Infection & Immunity, Vol. 68, No. 2, February 2000, pgs. 796-800.								
		Zysk, et al, "Detection of 23 Immunogenic Pneumococcal Proteins Using Convalescent-Phase Serum", Infection & Immunity, Vol. 68, No. 6, June 2000, pgs. 3740-43.								
		Spellerberg, et al., "Lmb, a Protein with Similarities to the Lral Adhesin Family, Mediates Attachment of Streptococcus agalactiae to Human Laminin", Infection and Immunity, Feb. 1999, pgs 871-878.								
		Adamou, et al., "Identification and Characterization of a Novel Family of Pneumococcal Proteins that are Protective Against Sepsis", Infection and Immunity, Feb. 2001, pgs. 949-958.								
		Wizemann, et al., "Use of a Whole Genome Approach to Identify Vaccine Molecules Affording Protection Against Streptococcus pneumoniae Infection", Infection and Immunity, Mar. 2001, pgs. 1593-1598.								
		Zhang, et al., "Recominant PhpA Protein, a Unique Histidine Motif-Containing Protein from Streptococcus pneumoniae, Protects Mice against Intranasal Pneumococcal Challenge", Infection and Immunity, June 2001, pgs. 3827-3836.								
		Hernandez, et al., "Antigenicity of Chimeric Synthetic Peptides Based on HTLV-1 Antigens and the Impact of Epitope Orientation." Biochemical and Biophysical Research Communications, Vol. 276. No. 3, pp. 1085-1088.								
		Partidos et al., "The influence of orientation and number of copies of T and B cell epitopes on the specificity and affinity of antibodies induced by chimeric peptides." Eur. J. Immunol 1992, 22: pp. 2675-2680.								
		Oishi, et al., "The effect of amino acid spacers on the antigenicity of dimeric peptide-inducing cross-reacting antibodies to a cell surface protein antigen of Streptococcus mutans." Oral Microbiol Immunol 2001: 16: pp.40-44.								
		Kurstak, Edward, " Editorial " Recent pi pp.2198-2200.	rogress in vac	ccines development and new trea	nds in immunisation." Vac	ine 19 (2001)				
		EXAMINER			DATE CONSIDERED					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.